



1646

Patent
Attorney's Docket No. 030708-035

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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| In re Patent Application of |) | |
| Peter SONDEREGGER |) | Group Art Unit: 1646 |
| Application No.: 09/403,724 |) | Examiner: Olga N. Chernyshev |
| Filed: December 20, 1999 |) | Confirmation No.: 7613 |
| For: NEUROTRYPSIN |) | |

**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT
TRANSMITTAL LETTER**

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Sir:

Enclosed is an Information Disclosure Statement and accompanying form PTO-1449 for the above-identified patent application.

- ☒ No additional fee for submission of an IDS is required.
- ☐ The fee of \$180.00 (1806) as set forth in 37 C.F.R. § 1.17(p) is also enclosed.
- ☐ A statement under 37 C.F.R. § 1.97(e) is also enclosed.
- ☐ A statement under 37 C.F.R. § 1.97(e), and the fee of \$180.00 (1806) as set forth in 37 C.F.R. § 1.17(p) are also enclosed.
- ☐ Charge \$_____ to Deposit Account No. 02-4800 for the fee due.
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The Director is hereby authorized to charge any appropriate fees under 37 C.F.R. §§ 1.16, 1.17 and 1.21 that may be required by this paper, and to credit any overpayment, to Deposit Account No. 02-4800. This paper is submitted in duplicate.

Respectfully submitted,

BURNS, DOANE, SWECKER & MATHIS, L.L.P.

Date: September 26, 2003

By: Malcolm K. McGowan
Malcolm K. McGowan, Ph.D.
Registration No. 39,300

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**SUPPLEMENTAL FIRST
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Sir:

Enclosed herewith are copies of publications cited in Applicants' Information Disclosure Statement filed in the referenced application on September 16, 2003. These publications were not provided with that IDS, although they were listed on the 1449 form.

A further copy of the previously submitted form PTO-1449 is attached, with the references now enclosed highlighted for the Examiner's convenience. It is respectfully requested that an Examiner-initialed copy of this form be returned to the undersigned.

Respectfully submitted,

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Substitute for forms 1449A/PTO & 1449B/PTO

ATTORNEY'S DKT NO.

030708-035

APPLICATION NO.

09/403,724

FIRST INFORMATION DISCLOSURE STATEMENT BY APPLICANT

APPLICANT

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FILING DATE

Dec. 20, 1999

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U.S. PATENT DOCUMENTS

| Examiner Initials | Document Number | Kind Code (if known) | Name of Patentee or Applicant of Cited Document | Issue/Publication Date (MM-DD-YYYY) |
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FOREIGN PATENT DOCUMENTS

| Examiner Initials | Document Number | Kind Code (if known) | Country | Date of Publication (MM-DD-YYYY) | Translation Yes No |
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NON PATENT LITERATURE DOCUMENTS

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|----------------------|--|
| | M. Bach et al., "Impairment of Spatial but Not Contextual Memory in CaMKII Mutant Mice with a Selective Loss of Hippocampal LTP in the Range of the θ Frequency", <i>Cell</i> , Vol. 81, 905-915 (June 16, 1995), Cell Press, Cambridge, Mass. USA |
| | S. Bao et al., "Cerebellar Cortical Inhibition and Classical Eyeblink Conditioning", <i>PNAS</i> , (Feb. 5, 2002) Vol. 99, No. 3, 1592-1597, National Academy of Sciences, Washington DC USA |
| | D. Baranes et al., "Tissue Plasminogen Activator Contributes to the Late Phase of LTP and to Synaptic Growth in the Hippocampal Mossy Fiber Pathway", <i>Neuron</i> , Vol. 21, 813-823 (October 1998), Cell Press, Cambridge, Mass, USA |
| | H. Beck et al., "Synaptic Plasticity in the Human Dentate Gyrus", <i>The Journal of Neuroscience</i> (September 15, 2000), Vol. 20, No. 18, 7080-7086, Society for Neuroscience, Washington DC, USA |
| | R. Bejar et al., "Transgenic Calmodulin-Dependent Protein Kinase II Activation: Dose-Dependent Effects on Synaptic Plasticity, Learning, and Memory", <i>The Journal of Neuroscience</i> , Vol. 22, No. 13, 5719-5726 (July 1, 2002), Society for Neuroscience, Washington DC, USA |
| | T.V.P. Bliss et al., "Long-Lasting Potentiation of Synaptic Transmission in the Dentate Area of the Anaesthetized Rabbit Following Stimulation of the Perforant Path", <i>J. Physiol.</i> (1973), Vol. 232, 331-356, Cambridge University Press, Cambridge England |
| | P. Calabresi et al., "Tissue Plasminogen Activator Controls Multiple Forms of Synaptic Plasticity and Memory", <i>European Journal of Neuroscience</i> , Vol. 12, 1002-1012 (2000), European Neuroscience Association, Paris Blackwell Science, Paris France |

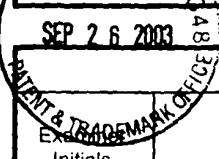
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| Substitute for forms 1449A/PTO & 1449B/PTO FIRST INFORMATION DISCLOSURE STATEMENT BY APPLICANT SEP 26 2003 PATENT & TRADEMARK OFFICE | ATTORNEY'S DKT No. 030708-035 | APPLICATION NO. 09/403,724 |
| | APPLICANT Sonderegger | |
| | FILING DATE Dec. 20, 1999 | GROUP 1646 |
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|----------------------|---|
| | D. Centonze et al., "Tissue Plasminogen Activator is Required for Corticostriatal Long-Term Potentiation", <i>European Journal of Neuroscience</i> , Vol. 16, 713-721 (2002), Paris Blackwell Science, Paris France |
| | Zu-Lin Chen et al, "Neuronal Death in the Hippocampus is Promoted by Plasmin-Catalyzed Degradation of Laminin", <i>Cell</i> , Vol. 91, 917-925 (December 26, 1997) Cell Press, Cambridge, Mass, USA |
| | Zu-Lin Chen et al., "Expression and Activity-Dependent Changes of a Novel Limbic-Serine Protease Gene in the Hippocampus", <i>The Journal of Neuroscience</i> (July 1995) Vol. 5, No. 7, 5088-5097, Society for Neuroscience, Washington DC, USA |
| | O. Dery et al., "Proteinase-Activated Receptors: Novel Mechanisms of Signaling by Serine Proteases", <i>Invited Review</i> , C1429-C1452 (1998) American Physiological Society, Bethesda, MD, USA |
| | M. Dihnich et al., "Prothrombin mRNA is Expressed by Cells of the Nervous System", <i>Neuron</i> , Vol. 6, 575-581 (April 1991), Cell Press, Cambridge Mass., USA |
| | A. Endo et al., "Proteolysis of Neuronal Cell Adhesion Molecule by the Tissue Plasminogen Activator - Plasmin System after Kainate Injection in the Mouse Hippocampus", <i>Neuroscience Research</i> , Vol. 33, 1-8 (1999) Elsevier, Amsterdam, Holland |
| | B. Faraut et al., "Thrombin Downregulates Muscle Acetylcholine Receptors Via an IP3 Signaling Pathway by Activating its G-Protein-Coupled Protease-Activated Receptor", <i>Journal of Cellular Physiology</i> , 196:105-112 (2003) Wiley-Liss, Inc., New York USA |
| | P. Frankland et al., " α -CaMKII-dependent Plasticity in the Cortex is Required for Permanent Memory", <i>Letters to Nature</i> , Vol. 411, 309-313 (May 2001) Macmillan Magazines Ltd. |
| | U. Frey et al., "A Different Form of Long-Lasting Potentiation Revealed in Tissue Plasminogen Activator Mutant Mice", <i>The Journal of Neuroscience</i> (March 15, 1996) Vol. 16, No. 6, 2057-2063, Society for Neuroscience, Washington DC, USA |
| | Gerren, R.A., Weinberger, N.M. "Long-term Potentiation in the Magnocellular Medial Geniculate nucleus of the Anaesthetized Cat" (1983) <i>Brain Res.</i> 265: 138-142, Elsevier/North-Holland Biomedical Press, Amsterdam, Holland |
| | Gingrich, M.B. et al. "Potentiation of NMDA Receptor Function by the Serine Protease Thrombin" (2000) <i>J. Neurosci.</i> 20:4582-4595, Society for Neuroscience, Washington DC, USA |
| | Goosens, K.A. et al. "Long-term Potentiation as a Substrate for Memory: Evidence From Studies of Amygdaloid Plasticity and Pavlovian Fear Conditioning" (2002) <i>Hippocampus</i> 12: 592-599, Wiley, New York, USA |
| | Gschwend, T.P. et al. "Neurotrypsin, a Novel Multidomain Serine Protease Expressed in the Nervous System" (1997) <i>Molec. Cell. Neurosci.</i> 9: 207-219, Academic Press, San Diego, CA USA |
| | Hirata, A. et al. "Abnormalities of synapses and neurons in the hippocampus of neuropsin-deficient mice" (2001). <i>Mol. Cell. Neurosci.</i> 17:600-610, Academic Press, San Diego, CA USA |

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 SEP 26 2003
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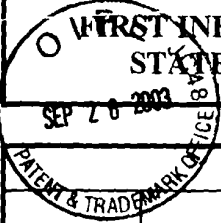
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NON PATENT LITERATURE DOCUMENTS

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|----------|--|
| | Huang, Y.Y. "Mice Lacking the Gene Encoding Tissue-type Plasminogen Activator Show a Selective Interference with Late-phase Long-term Potentiation in Both Schaffer Collateral and Mossy Fiber Pathways" (1996) <i>Proc. Natl. Acad. Sci. USA</i> 93: 8699-8704, National Academy of Sciences, Washington, DC, USA |
| | Kim, J.J. et al. "Cerebellar Circuits and Synaptic Mechanisms Involved in Classical Eyeblink Conditioning" (1997) <i>Trends Neurosci.</i> 20: 177-181, Elsevier Applied Science Publishing, Barking, England |
| | Komai, S. et al. "Neurotrophin Regulates an Early Phase of Schaffer-collateral Long-term Potentiation in the Murine Hippocampus" (2000) <i>Eur. J. Neurosci.</i> 12: 1479-1486, Blackwell Science, Paris, France |
| | Laroche, S. et al "Long-term Potentiation in the Prefrontal Cortex Following Stimulation of the Hippocampal CA1 Subicular Region" (1990) <i>Neurosci. Lett.</i> 114: 184-190, Elsevier Scientific Publishers, Limerick, Ireland |
| | Lee, K.S. "Sustained Enhancement of Evoked Potentials Following Brief, High Frequency Stimulation of the Cerebral Cortex in vitro" (1982) <i>Brain Res.</i> 239: 617-623, Elsevier/North-Holland Biomedical Press, Amsterdam, Holland |
| | Lewis, D. and Teyler, T.J. (1986). Long-term potentiation in the goldfish optic tectum in vitro. <i>Brain Res.</i> 375: 246-250, Elsevier/North-Holland Biomedical Press, Amsterdam, Holland |
| | Lisman, J. et al. "The Molecular Basis of CaMKII Function in Synaptic and Behavioral Memory" (2002) <i>Nat. Neurosci.</i> 3: 175-190, Nature Publishing Group, New York, USA |
| | Liu, Y. "Proteolytic Activity, Synapse Elimination, and the Hebb synapse" (1994) [Review]. <i>J. Neurobiol.</i> 25: 325-335, Wiley-Interscience, New York USA |
| | Luthi, A., Laurent, et al. "Hippocampal Long-term Potentiation and Neural Cell Adhesion Molecules L1 and NCAM" (1994) <i>Nature</i> 372: 777-779, Nature Publishing Group, London, England |
| | Macfarlane, S.R., et al. "Proteinase-activated Receptors" (2001) <i>Pharmacol. Rev.</i> 53: 245-282, Amer. Soc. For Pharmacology & Experimental Therapeutics, Bethesda, MD, USA |
| | Madani, R. et al. "Enhanced Hippocampal Long-Term Potentiation and Learning by Increased Neuronal Expression of Tissue-type Plasminogen Activator in Transgenic Mice" <i>EMBO Journal</i> 18: 3007-12, Oxford University Press, Oxford, England |
| | Malenka, R.C. and Nicoll, R.A. (1999). Long-term Potentiations - A Decade of Progress. <i>Science</i> 285: 1870-1874, Amer. Assn. For the Advancement of Science, Washington, DC, USA |
| | Maren, S. et al. "Synaptic Plasticity in the Basolateral Amygdale Induced by Hippocampal Formation Stimulation in vitro" (1995) <i>J. Neurosci.</i> 15: 7548-7564, Society for Neuroscience, Washington DC, USA |
| | Martin, S.J. et al. "New Life in an Old Idea: The Synaptic Plasticity and Memory Hypothesis Revisited" (2002) <i>Hippocampus</i> 12: 609-636, Wiley, New York, USA |
| | Martin, S.J. et al. "Synaptic Plasticity and Memory: an Evaluation of the Hypothesis" (2000) <i>Annu. Rev. Neurosci.</i> 23: 649-711, Annual Reviews, Inc., Palo Alto, CA |

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| Substitute for forms 1449A/PTO & 1449B/PTO  | ATTORNEY'S DKT NO. 030708-035 | APPLICATION NO. 09/403,724 |
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|----------------------|---|
| | Martinez, J.L. et al. "Long-term Potentiation and Learning" (1996) <i>Annu. Rev. Psychol.</i> 47: 173-203, Annual Reviews, Palo Alto, CA USA |
| | Matsumoto-Miyai, K., et al. "NMDA-dependent proteolysis of presynaptic adhesion molecule L1 in the hippocampus by neuropsin" <i>J. Neurosci.</i> , in press. Society for Neuroscience, Washington DC, USA |
| | Matynia, A. et al. "Genetic Approaches to Molecular and Cellular Cognition: a Focus on LTP and Learning and Memory" (2002) <i>Annu. Rev. Genet.</i> 36: 687-720, Annual Reviews, Palo Alto, California, USA |
| | Molinari F., et al. "Truncating Neurotrophin Mutation in Autosomal Recessive Nonsyndromic Mental Retardation" (2002) <i>Science</i> 298: 1779-1781, Amer. Assn. For the Advancement of Science, Washington, DC, USA |
| | Momota, Y., et al. "Blockade of Neuropsin, a Serine Protease, Ameliorates Kindling Epilepsy" (1998) <i>Eur. J. Neurosci.</i> 10: 760-764, Society for Neuroscience, Washington DC, USA |
| | Morris, R.G.M. "Long-term Potentiation and Memory" (2003) <i>Phil. Trans. R. Soc. Lond. B</i> 358: 643-647, Royal Society of London, London UK |
| | Morris, R.G.M. et al. "Selective Impairment of Learning and Blockade of Long-term Potentiation by an N-methyl-D-aspartate Receptor Antagonist AP5" (1986) <i>Nature</i> 319: 774-776, Nature Publishing Group, London, England |
| | Muller, D. et al. "LTP, Memory and Structural Plasticity"(2002) <i>Curr. Mol. Med.</i> 2: 605-611, Bentham Science Publishers, Boca Raton, FL, USA |
| | Nakagami, Y. et al. "Laminin Degradation by Plasmin Regulates Long-term Potentiation" (2000) <i>J. Neurosci.</i> 20: 2003-2010, Society for Neuroscience, Washington DC, USA |
| | Nicole, O. et al. "The Proteolytic Activity of Tissue Plasminogen Activator Enhances NMDA Receptor-Mediated Signaling" (2001) <i>Nat. Medicine</i> 7: 59-64, Nature Publishing Group, New York, USA |
| | Oliver, M.W. et al. "The Protease Inhibitor Leupeptin Interferes with the Development of LTP in Hippocampal Slices" (1989) <i>Brain Res.</i> 505: 233-238, Elsevier/North-Holland Biomedical Press, Amsterdam, Holland |
| | Patneau, D.K. et al. "Functional Correlates of Selective Long-term Potentiation in the Olfactory Cortex and Olfactory Bulb" (1992) <i>Brain Res.</i> 585: 219-228, Elsevier/North-Holland Biomedical Press, Amsterdam, Holland |
| | Pawlak, R. et al. "Rapid, Specific and Active Site-Catalyzed Effect of Tissue-Plasminogen Activator on Hippocampus-dependent Learning in Mice" (2002) <i>Neuroscience</i> 113: 995-1001, Elsevier Science Ltd, Great Britain |
| | Qian, Z. et al. "Tissue-plasminogen Activator is Induced as an Immediate-early Gene During Seizure, Kindling and Long-term Potentiation" (1993) <i>Nature</i> 361: 453-457, Nature Publishing Group, London, England |
| | Racine, R.J. et al. "Long-term Potentiation Phenomena in the Rat Limbic Forebrain" (1983) <i>Brain Res.</i> 260: 217-231, Elsevier/North-Holland Biomedical Press, Amsterdam, Holland |

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| | Riout-Pedotti, M.-S. et al. "Learning-induced LTP in Neocortex" (2000) <i>Science</i> 290: 533-536, Amer. Assn. For the Advancement of Science, Washington, DC, USA |
| | Riout-Pedotti, M.S. et al. "Strengthening of Horizontal Cortical Connections Following Skill Learning" (1998) <i>Nat. Neurosci.</i> 1: 230-234, Nature Publishing Group, New York, USA |
| | Ripka, W.C. "Design of Antithrombotic Agents Directed at Factor Xa. In: Structure-based Drug Design" (1997) (P. Veerapandian, Ed.), pp. 265-294. Marcel Dekker, Inc. New York |
| | Rongo, C. "A Fresh Look at the Role of CaMKII in Hippocampal Synaptic Plasticity and Memory" (2002) <i>BioEssays</i> 24: 223-233, Wiley Periodicals, New York, USA |
| | Sappino, A.P. et al. "Extracellular Proteolysis in the Adult Murine Brain" (1993) <i>J. Clin. Invest.</i> 92:679-685, Amer. Soc. For Clinical Investigation, New Haven, CT - '98 Thorofare, NJ 1999- |
| | Scarisbrick, I.A. et al. "Nervous System-specific Expression of a Novel Serine Protease: Regulation in the Adult Rat Spinal Cord by Excitotoxic Injury" (1997) <i>J. Neurosci.</i> 17: 8156-8168, Society for Neuroscience, Washington DC, USA |
| | Schafe, G.E. et al. "Memory Consolidation of Pavlovian Fear Conditioning: a Cellular and Molecular Perspective" (2001) <i>Trends Neurosci.</i> 24: 540-546, Elsevier Applied Science, Barking, England |
| | Schmidlin, F. et al. "Protease-Activated Receptors: How Proteases Signal to Cells" (2001) <i>Curr. Opin. Pharmacol.</i> 1: 575-582, Elsevier Science Ltd, Oxford, UK |
| | Seeds, N.W. et al. "Tissue Plasminogen Activator Induction in Purkinje Neurons After Cerebellar Motor Learning" (1995) <i>Science</i> 270: 1992-1995, Amer. Assn. For the Advancement of Science, Washington, DC, USA |
| | Shimizu, C. et al. "Characterization of Recombinant and Brain Neuropsin, a Plasticity-related Serine Protease" (1998) <i>J. Biol. Chem.</i> 273: 11189-11196, American Society for Biochemistry and Molecular Biology, Baltimore, MD, USA |
| | Shimizu, E. et al. "NMDA Receptor-dependent Synaptic Reinforcement as a Critical Process for Memory Consolidation" (2000) <i>Science</i> 290: 1170-1174, Amer. Assn. For the Advancement of Science, Washington, DC, USA |
| | Shiosaka, S. et al. "Synaptic Microenvironments - Structural Plasticity, Adhesion Molecules, Proteases and their Inhibitors" (2000) <i>Neurosci. Res.</i> 37: 85-89, Elsevier Science, Ltd. England |
| | Silva, A.J. et al. "Impaired Spatial Learning in Alpha-calcium-calmodulin Kinase II Mutant Mice" (1992) <i>Science</i> 257: 206-211, Amer. Assn. For the Advancement of Science, Washington, DC, USA |
| | Soreq, H. et al. "Plasminogen Activator in the Rodent Brain" (1981) <i>Brain Res.</i> 216: 361-374, Elsevier/North-Holland Biomedical Press, Amsterdam, Holland |
| | Squire, L.R. et al. "Retrograde Amnesia" (2001) <i>Hippocampus</i> 11: 50-55, Wiley, New York, USA |
| | Stripling, J.S. "Selective Long-term Potentiation in the Pyriform Cortex" (1988) <i>Brain Res.</i> 441: 281-291, Elsevier/North-Holland Biomedical Press, Amsterdam, Holland |

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| | Tomimatsu, Y. et al. "Proteases Involved in Long-term Potentiation" (2002) <i>Life Sci.</i> 72: 355-361, Pergamon Press, Oxford, England, New York |
| | Vaillant, C. et al. "Spatiotemporal Expression Patterns of Metalloproteinases and Their Inhibitors in the Postnatal Developing Rat Cerebellum" (1999) <i>J. Neurosci.</i> 19: 4994-5004, Society for Neuroscience, Washington DC, USA |
| | Wang, H. et al. "Inducible Protein Knockout Reveals Temporal Requirement of CaMKII Reactivation for Memory Consolidation in the Brain" (2003) <i>Proc. Natl. Acad. Sci. USA</i> 100: 4287-4292, National Academy of Sciences, Washington, DC, USA |
| | Weber, P.C. et al. "Structure-based Design of Thrombin Inhibitors. In: Structure-based Drug Design" (1977) (P. Veerapandian, Ed.), pp. 247-264. Marcel Dekker, Inc. New York, USA |
| | Wilhite, B.L. et al. "Functional Relations of the Rodent Claustral-entorhinal-hippocampal System" (1986) <i>Brain Res.</i> 365: 54-60, Elsevier/North-Holland Biomedical Press, Amsterdam, Holland |
| | Yamaguchi, N. "Spinesin/TMPRSS5, a Novel Transmembrane Serine Protease Cloned from Human Spinal Cord" (2002) <i>J. Biol. Chem.</i> 277: 6806-6812, American Society for Biochemistry and Molecular Biology, Baltimore, MD, USA |
| | Yamashiro, K. et al. (1997) "Molecular Cloning of a Novel Trypsin-like Serine Protease, Neurosin, Preferentially Expressed in Brain" <i>Biochim. Biophys. Acta</i> 1350: 11-14, Elsevier, Amsterdam, Holland |
| | Yoshida, S., and Shiosaka, S. "Plasticity-related Serine Proteases in the Brain" (1999) <i>Int. J. Mol. Med.</i> 3: 405-409, D.A. Spandidos, Athens, Greece |
| | Yuste R. et al. "Morphological Changes in Dendritic Spines Associated with Long-term Synaptic Plasticity" (2001) <i>Annu. Rev. Neurosci.</i> 24: 1071-1089, Annual Reviews, Inc., Palo Alto, CA |
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| Examiner Signature | Date Considered |
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with M.P.E.P. § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. **SEND TO:** Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22303-1450.

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